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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/817,583	04/02/2004	Martin Weigert	INFMN-002	2597
52612	7590	10/03/2005		
BEVER, HOFFMAN & HARMS, LLP 1432 CONCANNON BLVD BUILDING G LIVERMORE, CA 94550-6006			EXAMINER DICKEY, THOMAS L	
			ART UNIT	PAPER NUMBER
			2826	

DATE MAILED: 10/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

AK

Office Action Summary

Application No.

10/817,583

Applicant(s)

WEIGERT, MARTIN

Examiner

Thomas L. Dickey

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 September 2005.
 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
 4a) Of the above claim(s) 11 is/are withdrawn from consideration.
 5) ☐ Claim(s) _____ is/are allowed.
 6) ☒ Claim(s) 1-10 and 12-15 is/are rejected.
 7) ☐ Claim(s) _____ is/are objected to.
 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
 10) ☒ The drawing(s) filed on 02 April 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date 4/2/04.
 4) ☐ Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) ☐ Notice of Informal Patent Application (PTO-152)
 6) ☐ Other: _____.

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DETAILED ACTION

Election/Restriction

1. Applicant's election without traverse of the first embodiment, claims 1-10 and 12-15 readable thereon, in the Paper filed 09/06/2005 is acknowledged.

Oath/Declaration

2. The oath/declaration filed on 04/02/04 is acceptable.

Drawings

3. Figure 9 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the examiner does not accept the changes, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Priority

4. Acknowledgement is made of applicant's claim for domestic priority under 35 U.S.C. 119(e), through provisional application 60/116,622 filed 09/23/03.

Information Disclosure Statement

5. The Information Disclosure Statement filed on 04/02/04 has been considered.

Claim Objections

6. Claim 14 is objected to because of the following informalities: There is no readily ascertainable antecedent basis for "first and second contact pads." Claim 14 will be examined assuming the claimed first and second contact regions are in fact contact pads. Appropriate correction is required.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States

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only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

A. Claims 1-3,5-7 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by HORN ET AL. (3,104,282).

Horn et al. discloses an arrangement with an optoelectronic component (TV tube) 174 with terminal contacts 197; a printed circuit board (chassis board) 50a with electrical contacts 96, and a flexible conductor arrangement 96a, the flexible conductor arrangement 96a being formed by a flexible conductor, of a planar form and including a plurality of interconnects, where the flexible conductor arrangement 96a is connected to the optoelectronic component 174 and the printed circuit component such that the interconnects provide electrical connections between the terminal contacts 197 of the optoelectronic component 174 and corresponding ones of the electrical contacts 96 of the printed circuit board 50a, wherein the flexible conductor arrangement 96a is bent in such a way that, starting from the printed circuit board 50a, the flexible conductor arrangement 96a is led around the optoelectronic component 174 and contacts the optoelectronic component 174 on a side facing away from the printed circuit board 50a, the flexible conductor arrangement 96a having a first portion with contact regions for the connection to associated electrical contacts 96 of the printed circuit board 50a and a second portion with contact regions for the electrical connection to the terminal contacts 197 of the optoelectronic component 174, and the flexible conductor arrangement 96a being bent at least in a third portion lying between the first portion and the second portion, the optoelectronic component 174 being arranged at least partly between two

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partly parallel subregions, said subregions being at a distance from each other which is greater than a thickness of the optoelectronic component 174, of the flexible conductor arrangement 96a which adjoin a region of maximum curvature of the flexible conductor arrangement 96a. Note figures 2,4, 4A, and 5 of Horn et al.

B. Claims 1-4,8, 13, and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by KAWAGUCHI ET AL. (5,243,453).

With regard to claims 1-4 and 8 Kawaguchi et al. discloses a washing machine featuring an arrangement with an optoelectronic component 3 with terminal contacts 14, a leadframe 6 for contacting purposes, a printed circuit board 5 with electrical contacts 31, and a flexible conductor arrangement 8, the flexible conductor arrangement 8 being formed by a flexible conductor, of a planar form and including a plurality of interconnects, where the conductor arrangement is connected to the optoelectronic component 3 and the printed circuit component such that the interconnects provide electrical connections between the terminal contacts 14 of the optoelectronic component 3 and corresponding ones of the electrical contacts 31 of the printed circuit board 5, wherein the flexible conductor arrangement 8 is bent in such a way that, starting from the printed circuit board 5, the flexible conductor arrangement 8 is led around the optoelectronic component 3 and contacts the optoelectronic component 3 on a side facing away from the printed circuit board 5, the flexible conductor arrangement 8 having a first portion with contact regions for the connection to associated electrical contacts 31 of the printed circuit board 5 and a second portion with contact regions for

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the electrical connection to the terminal contacts 14 of the optoelectronic component 3, and the conductor arrangement being bent at least in a third portion lying between the first portion and the second portion and the printed circuit board 5 having in a region of maximum curvature a bending radius which is equal to or greater than a minimum bending radius, which fixes a maximum permissible curvature of the conductor arrangement, wherein the contact regions of the second portion of the conductor arrangement are respectively being brought into electrical contact with a corresponding leg of the leadframe 6. Note figures 2-5, column 3 lines 28-57, and column 4 lines 40-60 of Kawaguchi et al.

With regard to claim 14, Kawaguchi et al. discloses an arrangement comprising a printed circuit board 5; an optoelectronic component 3 mounted to the printed circuit board 5 such that a first side faces toward the printed circuit board 5 and a second side face away from the printed circuit board 5, wherein said printed circuit board 5 includes an electrical contact 31; and wherein the optoelectronic component 3 includes a terminal contact 14 formed on the second side; and a flexible flat cable 8 including a first contact region 32 located adjacent to a first end portion, a second contact region 33 located adjacent to a second end portion, and an elongated conductor extending between the first 32 and second 33 contact pads (i.e. regions) along a third portion of the flexible flat cable 8 that extends between the first end portion and the second end portion, wherein the flexible flat cable 8 is connected between the printed circuit board 5 and the optoelectronic component 3 such that the first contact region 32 is connected to

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the electrical contact 31 of the printed circuit board 5 at a point adjacent to the first side of the optoelectronic component 3, the second contact pad [region] 33 is connected to the terminal contact 14 on the second side of the optoelectronic component 3, and the third portion of the flexible cable extends around the optoelectronic component 3. Note figures 2-5, column 3 lines 28-57, and column 4 lines 40-60 of Kawaguchi et al.

C. Claims 1,2,8,9,10,12, and 15 are rejected under 35 U.S.C. 102(e) as being anticipated by YOO ET AL. (2003/0111701).

With regard to claims 1,2,8,9,10, and 12, Yoo et al. discloses an arrangement with an optoelectronic component (LCD panel) 110 with terminal contacts, a printed circuit board 200 with electrical contacts, a leadframe 120 for contacting purposes, an optical window (identified as a "transparent upper substrate") 115 for light to enter or light to leave, and a flexible conductor arrangement (FPC) 216 of a planar form and including a plurality of interconnects, where the conductor arrangement 216 is connected to the optoelectronic component 110 and the printed circuit component such that the interconnects provide electrical connections between the terminal contacts of the optoelectronic component 110 and corresponding ones of the electrical contacts of the printed circuit board 200, wherein the flexible conductor arrangement 216 is bent in such a way (note paragraph 0047) that, starting from the printed circuit board 200, the flexible conductor arrangement 216 is led around the optoelectronic component 110 and contacts the optoelectronic component 110

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on a side facing away from the printed circuit board 200, the flexible conductor arrangement 216 having a first portion with contact regions for the connection to associated electrical contacts of the printed circuit board 200 and a second portion with contact regions for the electrical connection to the terminal contacts of the optoelectronic component 110, and the conductor arrangement 216 being bent at least in a third portion lying between the first portion and the second portion, wherein the contact regions of the second portion of the conductor arrangement 216 are respectively being brought into electrical contact with a corresponding leg of the leadframe 120, the first portion of the conductor arrangement 216, connected to the printed circuit board 200, runs parallel to the surface of the printed circuit board 200, the optical window 115 is arranged on the side of the optoelectronic component 110 facing away from the printed circuit board 200, and the flexible conductor arrangement 216 defines, at least in the region of the optical window 115, a clearance for light to pass therethrough. Note figures 1 and 2 and paragraphs 0025-0027 and 0047 of Yoo et al.

With regard to claim 15 Yoo et al. discloses an arrangement with a printed circuit board 200; an optoelectronic component 110 mounted to the printed circuit board 200 such that a first side faces toward the printed circuit board 200 and a second side face away from the printed circuit board 200, and a flexible flat cable (FPC) 216 including (note paragraph 0047) a first end portion connected to the printed circuit board 200, a second end portion

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connected to the second face of the optoelectronic component 110, and a third portion extending between the first and second end portions, wherein the third portion defines a bent region, a first straight region extending between the bent region and the first end portion, a second straight region extending between the bent region and the second end portion, and wherein the first and second straight portions are parallel. Note figures 1 and 2 and paragraphs 0025-0027 and 0047 of Yoo et al.

Conclusion

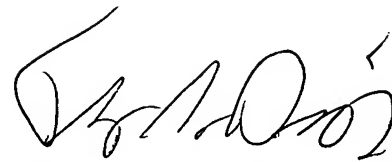
8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas L Dickey whose telephone number is 571-272-1913. The examiner can normally be reached on Monday-Thursday 8-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J Flynn can be reached on 571-272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you

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have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Thomas L. Dickey', is positioned above the printed name.

Thomas L. Dickey
Patent Examiner
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09/05